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|-------------------|--------------------------------------------------------------|
| <b>Company</b>    | Trenz Electronic GmbH                                        |
| <b>PCN Number</b> | PCN-20260125                                                 |
| <b>Title</b>      | PCN-20260125 TE0823-01 to TE0823-02 Hardware Revision Change |
| <b>Subject</b>    | Hardware Revision Change                                     |
| <b>Issue Date</b> | 2026-02-01                                                   |

## 1 Products Affected

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This change affects all Trenz Electronic TE0823 SoMs of Revision 01: TE0823-01-.\*.

| <b>Affected Product</b> | <b>Replacement</b> |
|-------------------------|--------------------|
| TE0823-01-3PIU1MA       | TE0823-02-3PIT1QA  |
| TE0823-01-3PIU1ML       | TE0823-02-3PIT1QL  |

## 2 Changes

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### 2.1 #1 Replaced buck converter EN6363QI with MPM3860GQW-Z

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**Type:** Schematic Change

**Reason:** EOL of Component.

**Impact:** None, minor changes in electrical characteristic.

### 2.2 #2 Replaced TPS27081ADDCR with MP5077GG-Z

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**Type:** Schematic Change

**Reason:** Component not recommended for new designs.

**Impact:** None, increased current capability, minor changes in electrical characteristic.

## 2.3 #3 Replaced LPDDR4 RAM IS43LQ32256A-062BLI with IS43LQ32K01S2A-046BLI

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**Type:** BOM Change

**Reason:** EOL of Component.

**Impact:** Size of RAM changed from 1GByte to 4GByte. Trenz reference design reflects the changes.

## 2.4 #4 Replaced SiT8008AI-73-XXS-52.000000E with SiT8008BI-73- XXS-52.000000E

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**Type:** BOM Change

**Reason:** EOL of Component.

**Impact:** None.

## 2.5 #5 Added power supervisor BD39040MUF-C

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**Type:** Schematic Change

**Reason:** Improve power supervision.

**Impact:** None,

## 2.6 #6 Net PG\_FPD replaced by PG\_ALL at CPLD

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**Type:** Schematic Change

**Reason:** Improve power supervision.

**Impact:** None.

## 2.7 #7 Added MOSFET T2A

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**Type:** Schematic Change

**Reason:** Result of supervised power rails should be reflected in POR B and PG\_ALL, ensures compliance with power-up sequence.

**Impact:** None.

## 2.8 #8 Added C144 and C145 and optional 100 ohm termination resistor

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**Type:** Schematic Change

**Reason:** Skyworks AN408 recommends to use AC coupling for LVDS outputs when output driver @1.8V.

**Impact:** None (LVDS output on CLK0). If customer design implemented a single ended clock, this should be changed to LVDS.

## 2.9 #9 All LVDS and MGT tracks extended by 1 mm due to PCB changes

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**Type:** PCB change

**Reason:** Due to changes above trace length of nets had to be changed.

**Impact:** None. Trace length changed, but this is carried out consistent over all IO groups. Therefore relative net length should have been preserved. Please also check online available [trace length sheet](#).

## 2.10 #10 Renamed net PS\_LP0V85 to PS\_LPVCC and net PS\_FP0V85 to PS\_FPVCC

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**Type:** Schematic Change

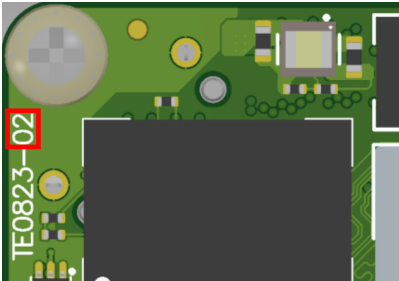
**Reason:** New names are correct independent from assembly version.

**Impact:** None.

## 3 Method of Identification

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The revision number is printed on the top side of the PCB.



## 4 Production Shipment Schedule

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From March 2026, after old stock is gone. If the new revision is not suitable for your application and still the former revision of the board is needed, please contact us.

## 5 Contact Information

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If you have any questions related to this PCN, please contact Trenz Electronics Technical Support at

- [forum.trenz-electronic.de](https://forum.trenz-electronic.de)
- [wiki.trenz-electronic.de](https://wiki.trenz-electronic.de)
- [support@trenz-electronic.de](mailto:support@trenz-electronic.de) (subject = PCN-20260125)
- phone
  - national calls: 05741 3200-0
  - international calls: 0049 5741 3200-0

## 6 Disclaimer

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Any projected dates in this PCN are based on the most current product information at the time this PCN is being issued, but they may change due to unforeseen circumstances. For the latest schedule and any other information, please contact your local Trenz Electronic sales office, technical support or local distributor.

This PCN follows JEDEC Standard J-STD-046.